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Business Leadership on Transportation in the Triangle

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Regional Transportation Alliance business coalition

North Carolina House Select Committee on Strategic Transportation Planning and Long Term Funding Solutions

March 7, 2016

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About the RTA business coalition

Regional Transportation Alliance business coalition – overall goal

An efficient regional transportation system that supports talent attraction, employee retention, economic growth, and community prosperity – both now and as we grow

About the RTA business coalition

WHAT WE DO

- Unite and represent the regional business community
- Identify and advance mobility solutions for the Triangle market
- Bring regional partners together to overcome threats to projects
- Make the business case for strategic transportation investments

About the RTA business coalition

WHO WE ARE

- 125+ companies and 23 member chambers of commerce
 Cisco, Golden Corral, MetLife, Duke Energy, RTP, GlaxoSmithKline,
 Fairway Outdoor, Fred Smith Company, Quintiles, and many more
- Dozens of business leader volunteers
 - Steve Brechbiel, Quintiles, 2016 RTA chair Ed Paradise, Cisco Systems, Immediate past RTA chair

About the Regional Transportation Alliance

Key successes with our partners

- Accelerated \$1 billion Triangle Expressway freeway
- Saved 30 mile, \$2 billion Triangle Expressway southeast extension
- Elevated bus rapid transit as a viable option for Wake County
- Directed successful regional campaign to advance new I-495
- Pushed successful two-state campaign for future I-89 to Va.

About the Regional Transportation Alliance

More successes

- Launched Air Service Advancement Project (ASAP) marketing push
- Coordinated N.C.'s first "Bus on Shoulder System (BOSS)"
- Supported successful transit referenda in Durham, Orange counties
- Garnered regional support for new I-885 linkage to RTP
- Advanced US 70 freeway conversion between Durham and Raleigh

About the RTA business coalition

PRIORITIES

- Complete and enhance our freeway system
 - 540 acceleration to I-40, convert US 70 to freeway, advance I-44/89
 - Add on-ramp signals for congestion relief, add express shoulder lanes
- Enhance major streets
 - Improve US 1 Capital Blvd, advance Synchronized Streets regionwide
- Create robust transit networks
 - Pass Wake Transit referendum, expand BOSS network
- Advance intercity connections via high speed rail
 - Connecting with Richmond, Washington, D.C. and Charlotte
- Strengthen domestic and international air service
 - Successful launch of RDU–Paris, strengthen domestic offerings



Thank you

State level funding



Access Based



Strategic Transportation Investments

30% of Funds 40% of Funds 30% of Funds **Statewide Mobility** Focus → Address Significant **Regional Impact Congestion and Bottlenecks** Selection based on 100% Data Focus → Improve **Division Needs Connectivity within Regions** 70% Data & 30% Local Input Focus → Address Local Needs Funding based on population • 50% Data & 50% Local Input Funding based on equal share

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Freeways

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I-540 Corridor

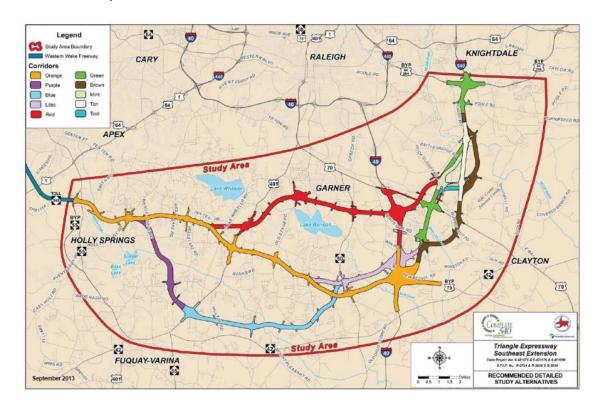
Triangle Expressway

- Most interoperable toll road in the United States
- Accepts 5 different payment types





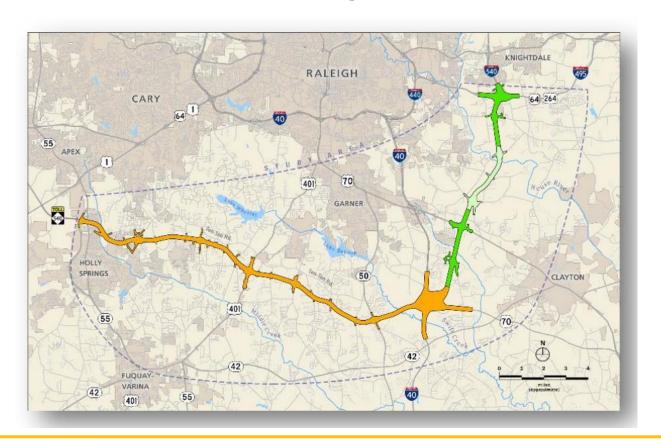
ncdot.gov/Complete540



Complete 540 draft environmental study of alternatives released



NCDOT has recommended Orange/Green/Mint/Green corridor

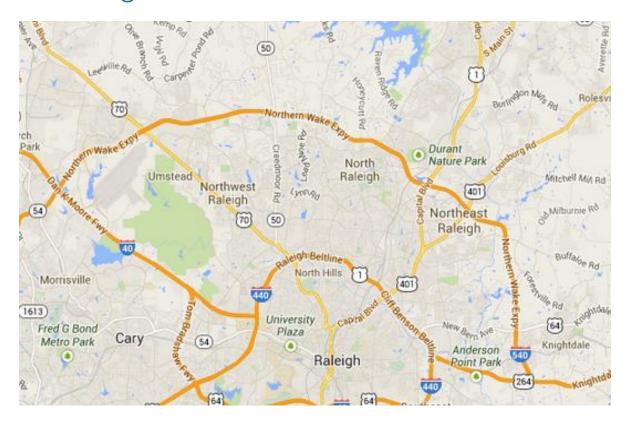


Express Shoulder Lanes



Express Shoulder Lanes

Shoulder Managed Lanes action team launched with NCDOT



Possible Express Shoulder Lanes Corridors

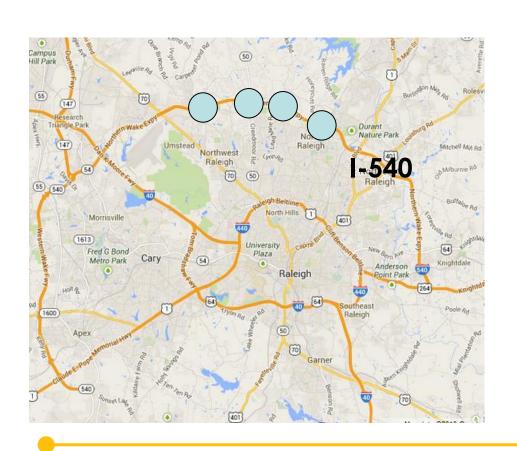
Managed lane study corridors

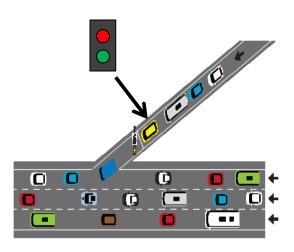
- I-40
- I-440
- I-495
- I-540
- NC 147/I-885

Other possibilities

- US 1 north of I-540
- US 1 south of I-40
- Wade Avenue Ext.

I-540 On-Ramp signals for congestion relief





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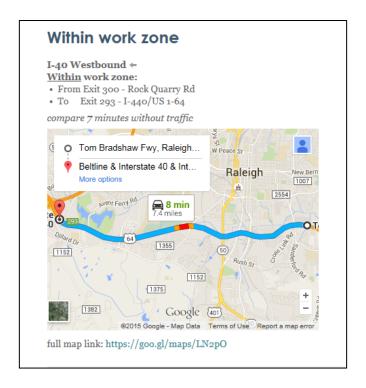
I-40 Corridor

I-40/440 Fortify rebuild



I-40/440 Fortify rebuild

I-40 segment well underway with lower delays than anticipated



I-40/440 Fortify rebuild

• I-440 segment achieves completion



Bus on Shoulder System (BOSS)





Other freeways

Convert US 70 to Freeway



US 1 freeway conversion



US 1 freeway conversion

US 1 freeway conversion approved with full funding



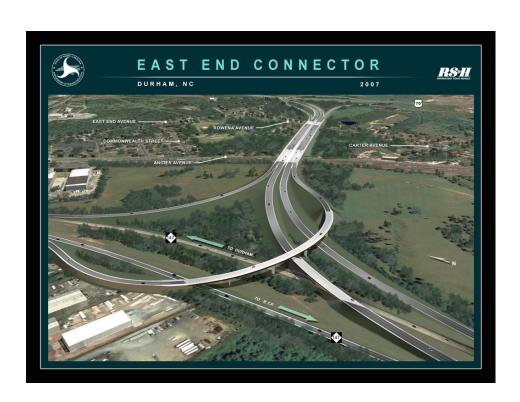
Northbound US 1 <u>PM</u> Peak Commute (Raleigh to Wake Forest)

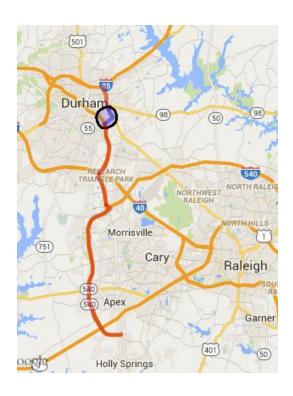
Today: 23 Minutes

2040: 45 Minutes (with no improvements)

2040: 22 Minutes (with improvements)

I-885 / Triangle Connector to I-85





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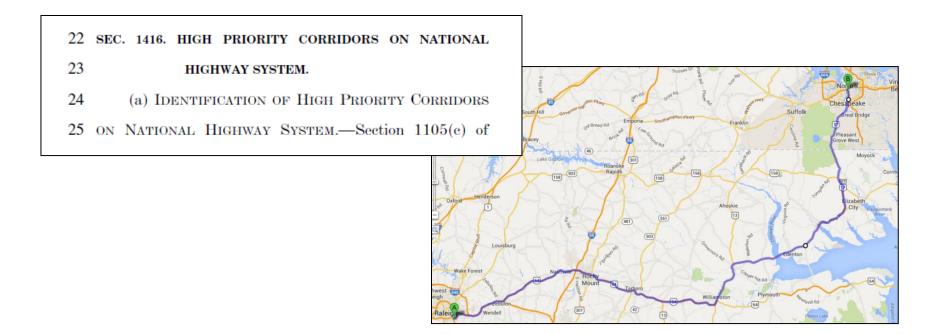
Future Interstate from Raleigh to Coastal Virginia

Future Interstate Authorization



Future Interstate Authorization

Entire NC Congressional delegation sponsored bill



I-495 Approval



I-495 Approval

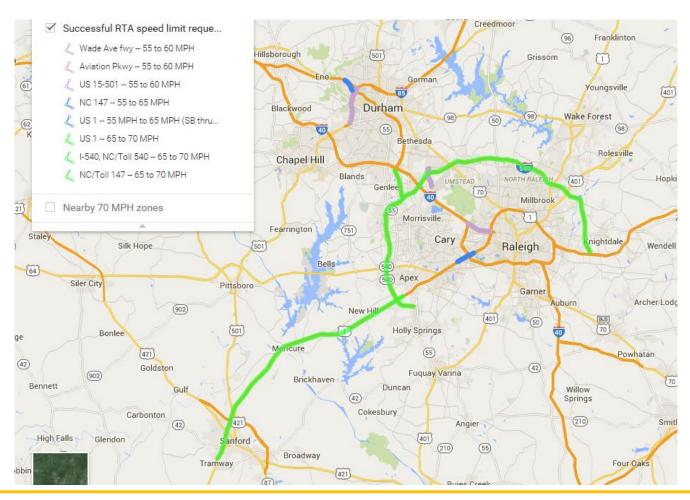






Freeway speed limit increases

Freeway Speed Limit Increases



Freeway Speed Limit Increases

- Support 75 MPH pilot for lower-volume freeway(s)
- Current 70 MPH freeways among safest highways in state
- Connect rural regions to urban centers and enhance economic development



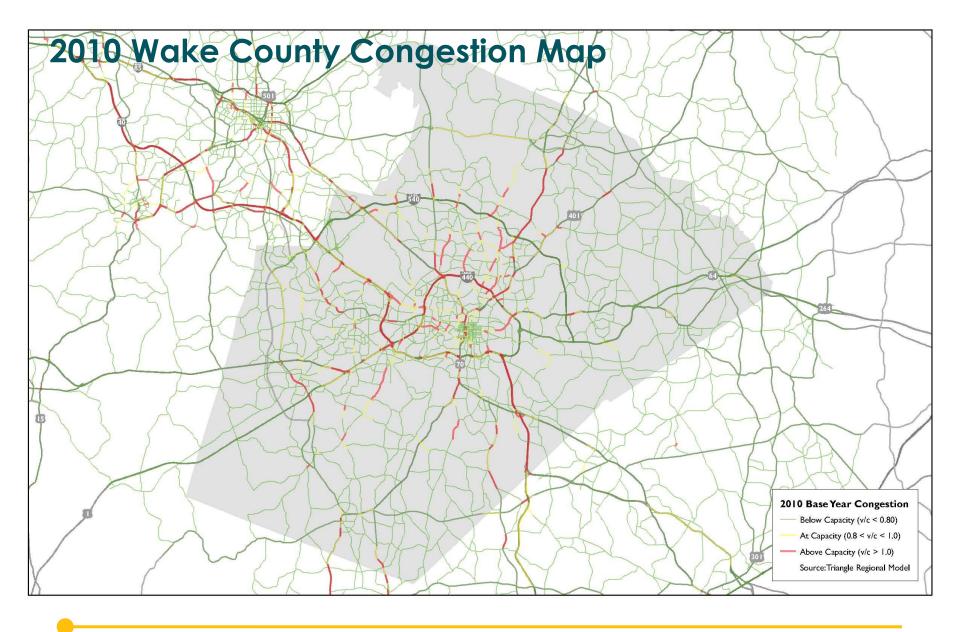
Wake Transit

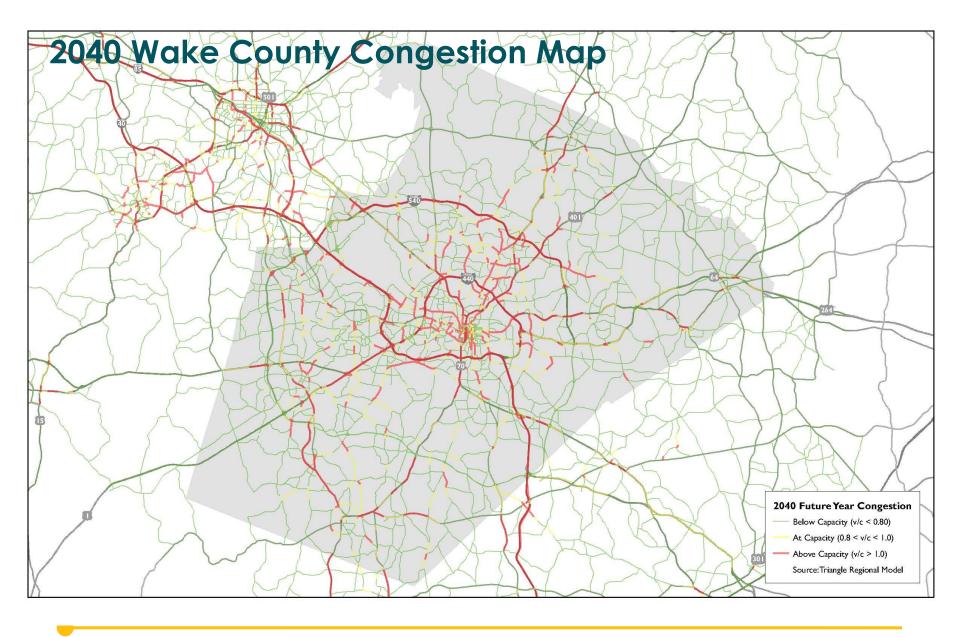
Why Transit



Including 470,000 employees 60,000 college students

+ 600,000 people expected in next 20 years





Wake Transit Initiative Funding Partners



















Why Transit

- More travel options both now and as we continue to grow
- Competitive advantage in attracting/retaining talent
- Alternative to driving and a means to avoid congestion, parking
- Access to jobs, healthcare, education, social and cultural events
- Focus land use, support sustainable and walkable development





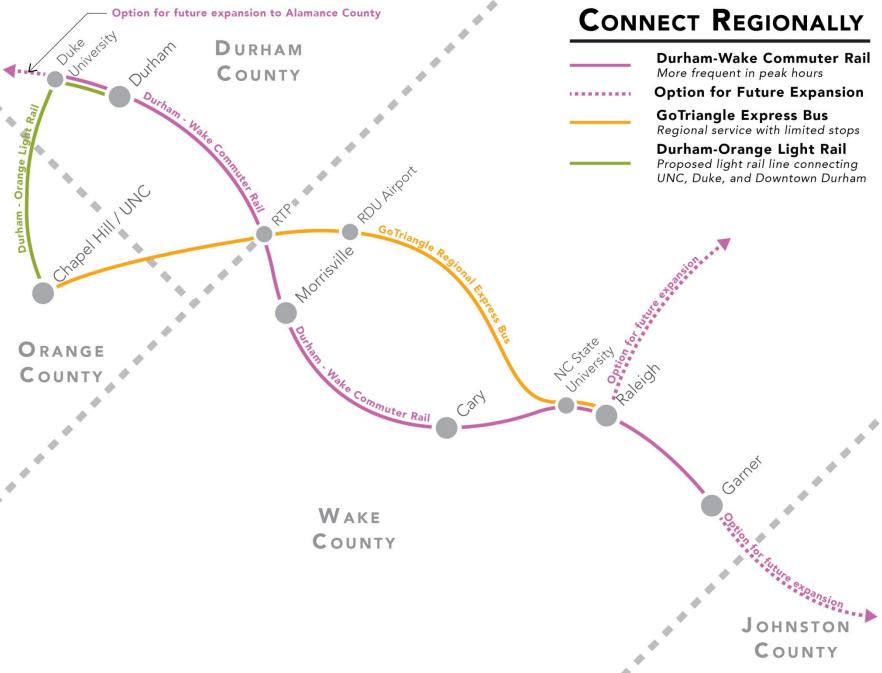
Recommended Wake Transit Plan

Primary Elements

- Adds more than 60 new miles in our frequent transit network, providing service every 15 minutes or better
- Creates 20 miles of bus rapid transit infrastructure
- Increases overall bus service by three times current levels
- Expands regional connections with enhanced express bus and 37 miles of commuter rail







Examples of commuter rail

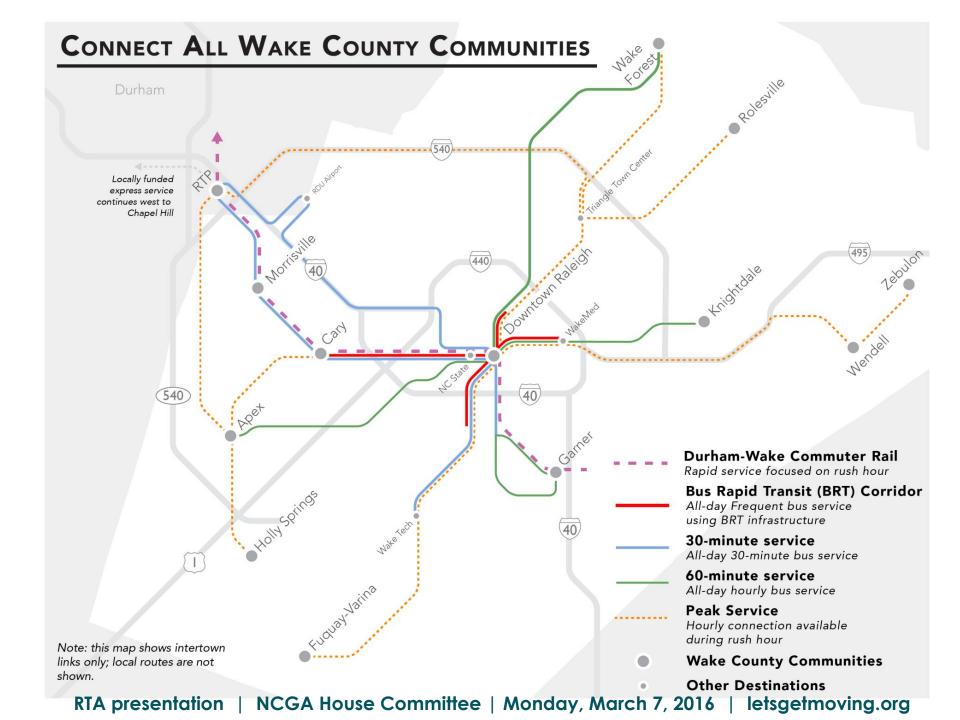


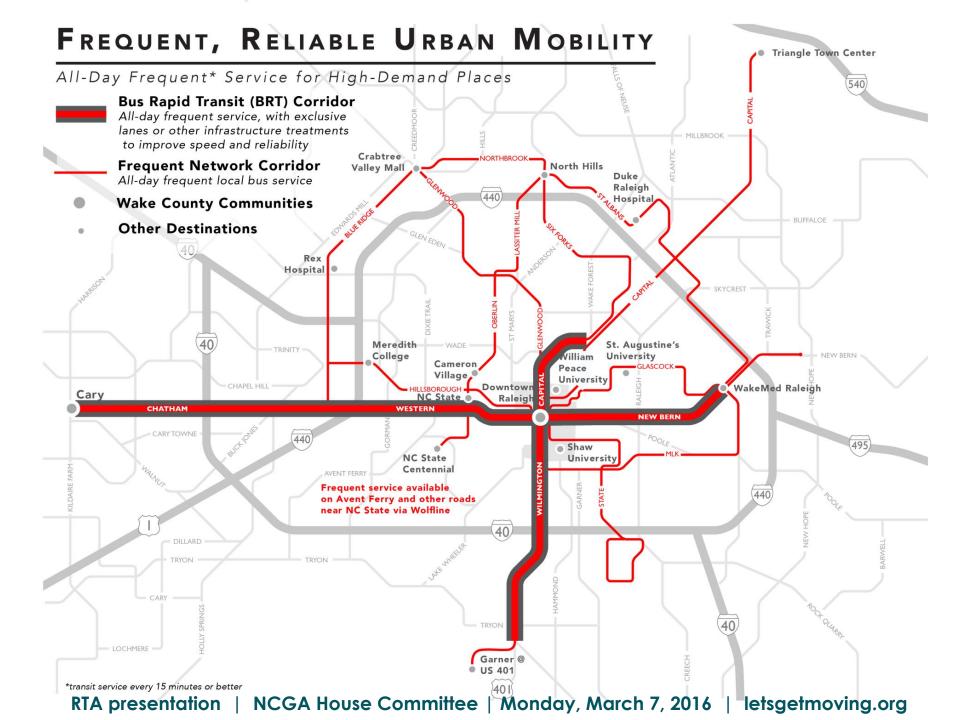
Virginia Railway Express in Arlington, Va.



Northstar Metro Minneapolis, Minn.







Examples of Bus Rapid Transit (BRT)



Alexandria, Va. metroway

Examples of Bus Rapid Transit (BRT)



Alexandria, Va. metroway

Examples of Bus Rapid Transit (BRT)



New Bern Ave. Today



New Bern Ave. Today



New Bern Ave. Future with BRT



BRT and Economic Development

"A new peer-reviewed research study provides compelling evidence that BRT — often with a price tag far lower than other transit investments — can provide ample economic benefits for cities large and small."

National study of BRT Development Outcomes National Institute for Transportation and Communities (NITC)

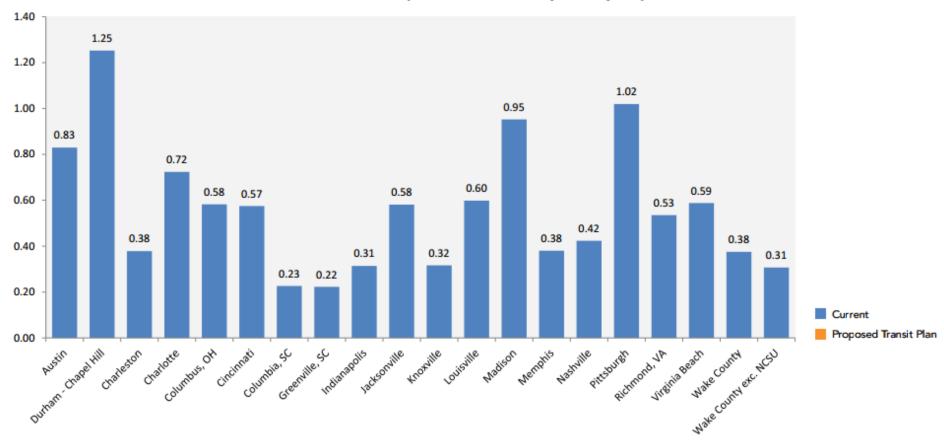
Unveiled by Transportation for America January 12, 2016



ENHANCED ACCESS TO TRANSIT Areas Close to Fixed-Route Service Shaded areas are within 3/4 of a mile of fixed-route bus services, regional express or intertown connections Wake Forest's existing local service during the first 10 years of the plan. will continue in the Transit Plan Flexible Service Area WAKE The entirety of the county outside of the areas closest to FOREST fixed-route service will be served by an expanded on-demand call-in program of vans and ride connection services called "Wake TRACS." ROLESVILLE **Community Funding Areas** Matching funding will be set aside to partner with towns in southern and eastern Wake County with limited fixed-route transit service offerings **RTP** International to create or accelerate new or Airport enhanced service in these areas. The partnerships will help determinethe best transit MORRISVILLE ZEBULON services to provide, which parts KNIGHTDALE of each community should be **NEW BERN** connected and to what, and WENDELL CARY HIGH HOUSE when the services should RALEIGH be put in place. APEX Existing bus service will be roughly tripled in the Transit Plan. GARNER HOLLY SPRINGS FUQUAY-VARINA

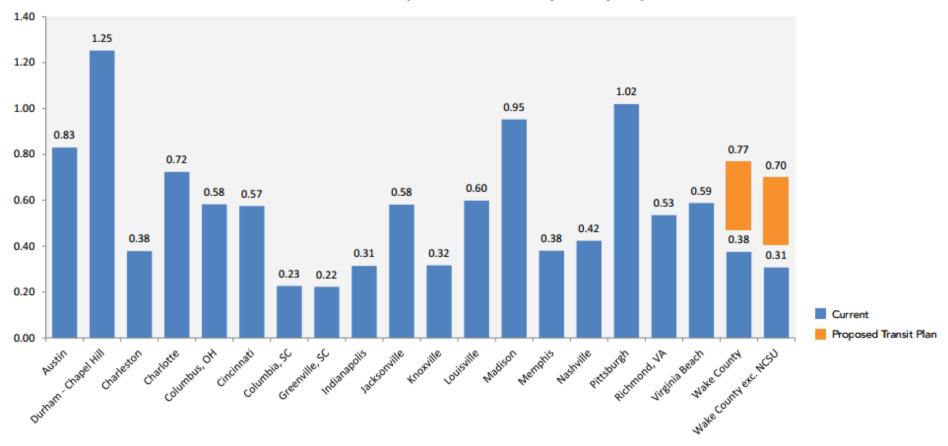
Current Transit Service

Transit Service Abundance (Revenue Hours per Capita)



Proposed Transit Service

Transit Service Abundance (Revenue Hours per Capita)

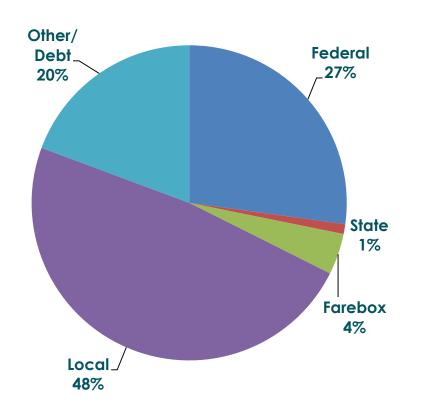


Wake Transit Plan Evolution

	Prior draft plan (2012)	Recommended plan (2015-16)
Commuter rail	37 miles	37 miles
Bus rapid transit	0	20 miles, 4 corridors
Enhanced bus service	2x existing bus service	3x existing bus service
Frequent network	0 additional miles	66 additional miles
Time horizon	20 years	10 years
Light rail	17 mile corridor	n/a

Funding for Wake Transit Plan

Federal and State Contributions Through 2027



\$1.2 billion - Wake Co. share

- Half-cent local sales tax
- New \$7 county vehicle registration fee
- Existing 5% vehicle rental tax
- Fare box revenue

\$2.4 billion - total plan cost

Capital, operating, fund balance allocation

Timeline for Wake Transit

Dec. 2015 Recommended Wake Transit Plan released

Jan. 2016 RTA business coalition endorses plan

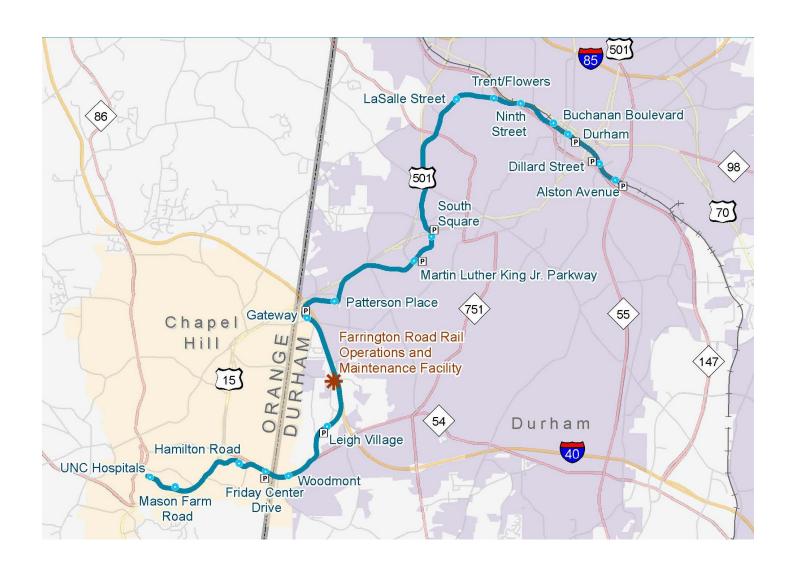
Spring 2016 CAMPO, GoTriangle, Wake Commissioners to

approve plan and voter referendum

Nov. 8, 2016 Anticipated ½ cent sales tax referendum

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Durham-Orange transit



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Streets

Synchronized Streets



Synchronized Streets

What is a Synchronized Street?

Formerly called a superstreet, a Synchronized Street provides for reduced delay and simultaneous coordination of both main street travel directions at all times of day.

While main street travelers may turn left, right or travel straight through — just like at a conventional intersection — side-street travelers who want to cross or turn left at a Synchronized Street intersection must first turn right and then make a U-turn to return to their desired route.

The North Carolina Department of Transportation evaluates traffic volumes and the number of crashes and collisions at an intersection. This helps to determine if Synchronized Streets are the most effective solution for the area.

A Synchronized Street is also referred to in other states and by the Federal Highway Administration as a J-turn or as a restricted crossing U-turn (RCUT).

Side Street Left-Turn:

In a conventional intersection, drivers turning left from a side street create more delay and conflicts. At a Synchronized Street, they first join the main street flow, reducing wait times and conflicts.

Benefits of Synchronized Streets

Synchronized Streets can help alleviate congestion while increasing travel capacity and reducing the number of collisions at intersections.

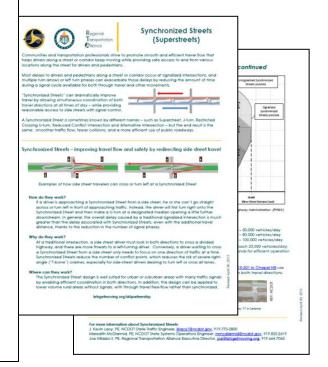
Improved traffic flow is possible by simplifying traffic signal phasing (e.g., eliminating the need for left-turn signals or cutting down on the time spent at a traffic light) and allowing both directions of traffic to move simultaneously.

Redirecting traffic to avoid high-risk movements, such as through movements, reduces the number of conflict points — places in intersections where collisions might occur.

Synchronized Streets are also cost effective because they fit within the existing right of way. Interchanges, by comparison, are more costly because they can require further land acquisition and/or bridges, underpasses or access ramps to fully separate the two roads.

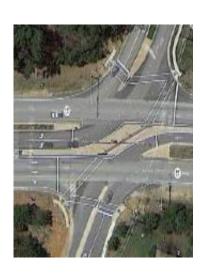
Side Street Cross-Traffic:

In a conventional intersection, drivers crossing the main street create more delay and conflicts. At a Synchronized Street, they first join the main street flow, reducing wait times and conflicts.



Synchronized Streets







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Higher Speed Rail

Higher Speed Rail



Higher Speed Rail

Final environmental document approved for Raleigh-Richmond



Higher Speed Rail

Raleigh Union Station groundbreaking



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